_50

United States Department of Agriculture

National Agricultural Library

Beltsville Maryland 20705

Quick Bibliography Series

EARTHWORMS: RAISING, USES, BENEFICIAL ASPECTS
1970-85

234 Citations

NEWARK PUBLIC LIBRARY

APR 24 1986

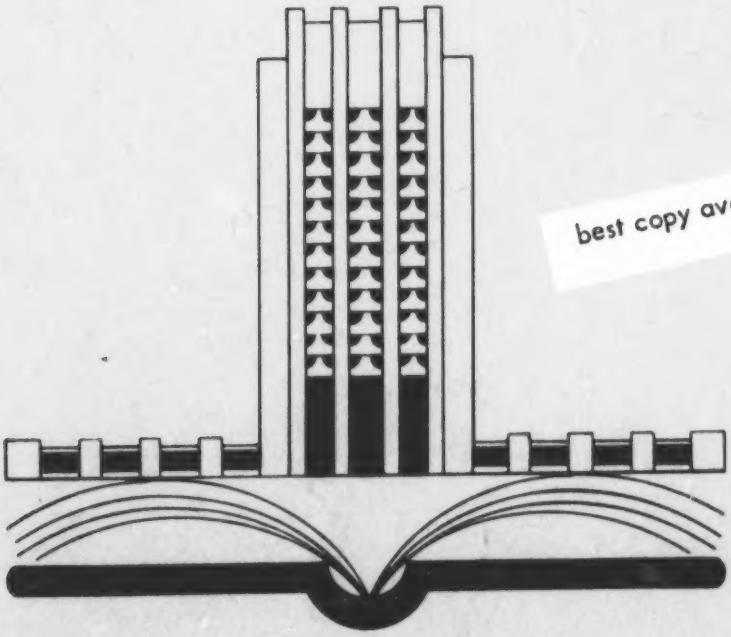
U. S. GOVT. PUBS.
DEPOSITORY 376

NAL BIBL. QB 86-50
Updates QB 82-06
April 1986

Searched by:
JERRY RAFATS
National Agricultural Library
Economics & Marketing Reference Branch
(301) 344-3704

DATABASE SEARCHED: AGRICOLA

LANGUAGES: English only



best copy available

7.18/4:

Bibliographies in the Quick Bibliography Series of the National Agricultural Library, are intended primarily for current awareness, and as the title of the series implies, are not indepth exhaustive bibliographies on any given subject. However, the citations are a substantial resource for recent investigations on a given topic. They also serve the purpose of bringing the literature of agriculture to the interested user who, in many cases, could not access it by any other means. The bibliographies are derived from computerized on-line searches of the AGRICOLA data base. Timeliness of topic and evidence of extensive interest are the selection criteria.

The author/searcher determines the purpose, length, and search strategy of the Quick Bibliography. Information regarding these is available upon request from the author/searcher.

Copies of this bibliography may be made or used for distribution without prior approval. The inclusion or omission of a particular publication or citation may not be construed as endorsement or disapproval.

To request a copy of a bibliography in this series, send the title, series number and self-addressed gummed label to:

U.S. Department of Agriculture
National Agricultural Library
Public Services Division, Room 111
Beltsville, Maryland 20705

United States Department of Agriculture | National Agricultural Library | Public Services Division | Beltsville, Maryland 20705

DOCUMENT DELIVERY SERVICES AVAILABLE to Libraries and Other Information Centers and Commercial Organizations

The National Agricultural Library (NAL) accepts requests from libraries and other organizations in accordance with the national and international interlibrary loan code and guidelines. In its national role, NAL has a unique responsibility to attempt to supply copies of agricultural publications not found elsewhere. Filling requests for materials readily available from other sources would divert its resources and diminish its ability to serve as a national source for agricultural and agriculturally related publications. Therefore, NAL should be viewed as a library of last resort. Requestors should submit requests first to State/region/network sources prior to sending to NAL. Within the United States, possible sources are the land-grant university or other large research libraries within a state. Requesters in other countries should first try major university, national or provincial institutions. If the needed publications are not available from these sources, the requests may be submitted to NAL with a statement indicating their non-availability.

• Requests may be submitted on the American Library or the International Library interlibrary request form, by TWX (710-828-0506) or via the OCLC interlibrary loan subsystem. Our OCLC symbol is **AGL**, and we request that the symbol be entered twice. The complete name of the person authorizing the request is to appear on each form.

• The standard bibliographic source which lists the title as owned by NAL should be noted on each request. Requests for periodical articles should be verified. If verification is not possible, indicate the sources searched and give the sourceof the citation requested. Those requests which are verified or for which the citation source has been given receive a more thorough search. Unverified requests may be returned. If the citation is from an NAL database (CAIN/AGRICOLA, *Bibliography of Agriculture*, or the NAL catalog) and the call number is given, this call number should be included on the request.

LOAN SERVICE – Monographs published in the United States or abroad may be lent to U.S. libraries. Monographs published in the U.S. may be lent to libraries in other countries. The loan period is one month unless a shorter period is indicated on the **due slip**. The loan may be renewed for an additional month if there is no reserve request. The renewal request should be received prior to the due date. The borrowing library is responsible from the time of dispatch for any loss or damage incurred.

The following materials are **not** available for loan: serials (except for USDA serials), rare reference and reserve books microforms, and proceedings of conferences or symposiums. Photocopy or microform of the non-circulating publications will be supplied automatically as described below if the requesting organization indicates that this is acceptable on the loan request form.

PHOTODUPLICATION SERVICE – A separate completed interlibrary form should be submitted for each article requested. Willingness to pay charges should be indicated on the form. Indicate compliance with copyright law or include a statement that the article is for research purposes only. Requests cannot be processed without these statements.

Rates are:

Electrostatic copy, microfilm and microfiche –
$ 5.00 for the first 10 pages or fraction copied from a single article or publication.
$ 3.00 for each additional 10 pages or fraction.

Duplication of NAL-owned microfilm – $ 10.00 per reel.

Duplication of NAL-owned microfiche– $ 5.00 for the first fiche and $ .50 for each additional fiche.

Billing – Fees include postage and handling, and are subject to change. Invoices are issued quarterly by the National Technical Information Service (NTIS), 5285 Port Royal Road, Springfield, VA 22161. Requesters are encouraged to establish deposit accounts with NTIS.
DO NOT SEND PREPAYMENT.

SEND REQUESTS TO – USDA, National Agricultural Library, Lending Branch, ILL, Beltsville, Maryland 20705. Questions concerning these services may be made by correspondence to Head, Lending Branch or by telephoning (301) 344-3755.

NOTE –
• Once requests have been accepted and processing has begun, requests cannot be cancelled. The appropriate charge for filling requests will be applied.

Form NAL-8A (10/84)

READEX FICHE

United States Department of Agriculture | National Agricultural Library | Public Services Division | Beltsville, Maryland 20705

DOCUMENT DELIVERY SERVICES TO INDIVIDUALS

The National Agricultural Library (NAL) has a unique responsibility to attempt to supply copies of agricultural publications not found elsewhere. Filling requests for materials readily available from other sources would divert its resources and diminish its ability to serve as a national source for agricultural and agriculturally related publications. Therefore, NAL should be viewed as a library of last resort and individuals should submit requests first to local or state sources prior to sending to NAL. Possible sources are the land-grant university or other large research libraries within a state. If the needed publications are not available from these sources, the requests may be submitted to NAL with a statement indicating their non-availability.

Individuals in other countries should submit requests through major university, national or provincial institutions.

LOAN SERVICE – Materials in the collection are loaned only to other *libraries*. Requests for loans should be made through local public, academic or special libraries.

The following materials are **not** available for loan: serials (except USDA serials); rare, reference, and reserve books; microforms; and proceedings of conferences or symposiums. Photocopy or microform of non-circulating publications may be purchased as described below.

PHOTODUPLICATION SERVICE – Use "USDA Request for Photocopying" (form LF-607) which may be requested in advance from our Library. A *separate form* should be submitted for each article or item requested. Requests should be as complete as possible with a minimum of abbreviation. The source of the citation should be given. If the citation is from an NAL database (CAIN/AGRICOLA, *Bibliography of Agriculture*, or the NAL catalog) and the call number is given, that call number should be listed in the proper block on the request form. Willingness to pay charges should be indicated on the form. Indicate compliance with copyright law or include a statement that the article is for research purposes only. Requests cannot be processed without these statements.

Rates are:

Electrostatic copy, microfilm and microfiche –
$ 5.00 for the first 10 pages or fraction copied from a single article or publication.
$ 3.00 for each additional 10 pages or fraction.

Duplication of NAL-owned microfilm – $ 10.00 per reel.

Duplication of NAL-owned microfiche– $ 5.00 for the first fiche and $ .50 for each additional fiche.

Billing – Fees include postage and handling, and are subject to change. Invoices are issued quarterly by the National Technical Information Service (NTIS), 5285 Port Royal Road, Springfield, VA 22161. Requesters are encouraged to establish deposit accounts with NTIS.
DO NOT SEND PREPAYMENT.

SEND REQUESTS TO – USDA, National Agricultural Library, Lending Branch, ILL, Beltsville, Maryland 20705. Questions concerning these services may be made by correspondence to Head, Lending Branch or by telephoning (301) 344-3755.

NOTE –

• Once requests have been accepted and processing has begun, requests cannot be cancelled. The appropriate charge for filling requests will be applied.

USDA Regional Document Delivery

Through agreements with the major land-grant libraries in select states, USDA Employees or libraries in those states may send their requests for document service directly to the land-grant university library for service. If the document cannot be supplied, it will be automatically forwarded to a larger regional land-grant library and a notice of this action sent back to the requestor. If the regional library cannot fill the request, it is forwarded to the National Agricutural Library (Utilization Section) for completion. This service exists in the following states, and Form AD-245 or the CALS printout form should be sent to these libraries. Phone numbers may be used for emergency services.

Alabama
Ralph Brown Draughon Library
Auburn University
Auburn, AL 36830 (205)826-4500

Arizona
Interlibrary Loans
University of Arizona Library
Tucson, AZ 85721 (602)626-1941

Arkansas
Interlibrary Loan
University of Arkansas
Fayetteville, AR 72701 (501)575-4101

California
Interlibrary Loans
University of California Library
Davis, CA 95616 (916)752-2251

Interlibrary Loans
Bio-Ag Science Libraries
University of California
Riverside, CA 92502 (714)787-3701

Colorado
Interlibrary Loans
Colorado State University Library
Ft. Collins, CO 80523 (303)491-5911

Florida
Hume Library
University of Florida
Gainesville, FL 32601 (904)392-1934

Georgia
Science Library
University of Georgia
Athens, GA 30601 (404)542-1315

Hawaii
Interlibrary Loans
Thomas Hale Hamilton Library
2550 The Mall
University of Hawaii
Honolulu, HI 96843 (808)948-8568

Idaho
University of Idaho Library
Moscow, ID 83843 (208)885-6559

Iowa
Interlibrary Loan
Iowa State University Library
Ames, IA 50010 (515)294-3642

Kansas
USDA Document Delivery
Kansas State University Library
Manhattan, KS 66506 (913)532-6516

Louisiana
Interlibrary Loans
Louisiana State University Library
Baton Rouge, LA 70803 (504)388-2138

Michigan
Document Delivery
Michigan State University Library
East Lansing, MI 48824 (517)355-7644

Minnesota
St. Paul Campus Library
University of Minnesota
St. Paul, MN 55108 (612)373-0968

Mississippi
Interlibrary Loans
Mitchell Memorial Library
Mississippi State University
Box 5408
Mississippi, MS 39762 (601)325-4225

Missouri
University of Missouri
1C31 Science
Ellis Library
Columbia, MO 65201 (314)882-2656

FEBRUARY 1984

Montana
Roland R. Renne Library
Montana State University
Bozeman, MT 59717 (406)994-3161

Interlibrary Loan (for Forest Service (ONLY)
Mansfield Library
University of Montana
Missoula, MT 53706 (406)262-9635

Nebraska
C. Y. Thompson Library
University of Nebraska, East Campus
Lincoln, NE 68503 (402)472-2802

Nevada
Life & Health Science Library
Fleischmann Agricultural Building
University of Nevada, Reno
Reno, NV 89557 (702)784-6616

New Mexico
Interlibrary Loans
New Mexico State University Library
P. O. Box 3475
Las Cruces, NM 88003 (505)646-4737

New York
Interlibrary Loan Services
Mann Library
Cornell University
Ithaca, NY 14850 (607)256-7754

North Carolina
Interlibrary Center
D. H. Hill Library
North Carolina State University
Raleigh, NC 27607 (919)737-2116

North Dakota
North Dakota State University Library
Fargo, ND 58102 (701)237-8885

Ohio
Interlibrary Loan
Ohio State University Library
1858 Neil Avenue Mall
Columbus, OH 43210 (614)422-6211

Oklahoma
Interlibrary Loans
Oklahoma State University Library
Stillwater, OK 74074 (405)624-6313

Oregon
Interlibrary Loans
Washington State University Library
Pullman, WA 99164 (509)335-2671

Pennsylvania
Interlibrary Loan Services
Mann Library
Cornell University
Ithaca, NY 14850 (607)256-7754

Puerto Rico
University of Puerto Rico
Agricultural Experiment Station Library
P. O. Box H
Rio Piedras, PR 00928 (809)767-9705

South Carolina
Interlibrary Loans
Robert Meldrow Cooper Library
Clemson University
Clemson, SC 29631 (803)656-3025

South Dakota
H. M. Briggs Library
P. O. Box 2115
South Dakota State University
Brookings, SD 57000 (605)688-5106

Tennessee
James D. Hoskins Library
University of Tennessee
Knoxville, TN 37916 (615)974-4240

Texas
Interlibrary Loans
University Library
Texas A&M University
College Station, TX 77843 (713)845-56

Utah
Interlibrary Loans
Merrill Library
Utah State University
Logan, UT 84322 (801)750-2680

Washington
Science & Engineering Library
Washington State University
Pullman, WA 99164 (509)335-2671

Wisconsin
Steenbock Memorial Library
University of Wisconsin
550 Babcock Drive
Madison, WI 53706 (608)262-9635

AGRICOLA

File 10

Contains citations to documents published later than January 1979.

0001
Abundance and biomass of earthworms (Lumbricidae) in chosen crop-fields.
Witkowski, T. Warszawa, Polish Scientific Publishers. Polish ecological studies. 1980. v. 6 (2). p. 293-303. ill. 18 ref. (NAL Call No.: QH540.P62).

0002
Action of pesticides on earthworms. I. The toxicity of cholinesterase-inhibiting insecticides to earthworms as evaluated by laboratory tests.
Stenersen, J. London Society of Chemical Industry. Pesticide scienceSociety of Chemical Industry. Feb 1979. v. 10 (1). p. 66-74. ill. 28 ref. (NAL Call No.: SB951.P47).

0003
Action of pesticides on earthworms. II. Elimination of parathion by the earthworm Eisenia foetida (Savigny).
Stenersen, J. London Society of Chemical Industry. Pesticide scienceSociety of Chemical Industry. Apr 1979. v. 10 (2). p. 104-112. ill. 23 ref. (NAL Call No.: SB951.P47).

0004
Action of pesticides on earthworms. III. Inhibition and reactivation of cholinesterases in eisenia foetida (Savigny) after treatment with cholinesterase-inhibiting insecticides.
Stenersen, J. London Society of Chemical Industry. Pesticide scienceSociety of Chemical Industry. Apr 1979. v. 10 (2). p. 113-122. ill. 17 ref. (NAL Call No.: SB951.P47).

0005
Action of pesticides on earthworms. IV. Uptake and elimination of oxamyl compared with carbofuran.
Stenersen, J. ; Dien, N. Oxford, Blackwell. Pesticide science. Aug 1980. v. 11 (4). p. 396-400. ill. 9 ref. (NAL Call No.: SB951.P47).

0006
The activities of earthworms and the fates of seeds.
Grant, J.D. London : Chapman and Hall, 1983. Earthworm ecology : from Darwin to vermiculture / edited by J.E. Satchell. p. 107-122. Includes 29 references. (NAL Call No.: DNAL QL391.A6E27).

0007
Adaptation of earthworm populaltions to different soil treatments in apple orchard (Anthropogenic influence, lumbricidae, soil fauna, West Germany).
Kuhle, J.C. Louvain-La-Neuve, Belgique : Dieu-Brichart, (1983?). New trends in soil biology : proceedings of the VIII International Colloquium of Soil Zoology ; Louvain-La-Neuve, 30-VIII - 2-IX-1982 / edited by P. Lebrun ... (et al.). p. 487-501. ill. Includes references. (NAL Call No.: QL110.I5 1982).

0008
An analysis of the inorganic composition of the setae of Eisenia foetida (Oligochaeta, Lumbricidae).
PLAAA. Harman, W.J. s.l. : The Academy. The proceedings of the Louisiana Academy of Sciences. Dec 31, 1984. v. 47 (2). p. 19-22. Includes 5 references. (NAL Call No.: DNAL 500 L932).

0009
The annual cycle in populations of earthworms (Lumbridicae, Oligochaeta) in three types of oak-hornbeam of the Niepolomicka Forest. I. Species composition, dominance, frequency and associations (Tilio-Carpinetum).
Rozen, A. Jena, E. Ger., Gustav Fischer. Pedobiologia. 1982. v. 23 (3/4). p. 199-208. ill. Ref. (NAL Call No.: 56.8 P343).

0010
Anthropochorous earthworms of Lahaul Valley (Himachal Pradesh) with notes on their ecology.
Julka, J.M. Hebbal, Bangalore, India, The University. U.A.S. tech series - India, University of Agricultural Sciences. 1981. 1981. (37). p. 69-76. map. Includes 5 ref. (NAL Call No.: S539.I4U53).

0011
Australian pheretimoid earthworms (Megascolecidae: Oligochaeta): a synopsis with the description of a new genus and five new species (Queensland, Australia).
Easton, E.G. Melbourne, Commonwealth Scientific and Industrial Research Organization. Australian journal of zoology. 1982. v. 30 (4). p. 711-735. ill., map. 2 p. ref. (NAL Call No.: 410 AU73).

0012
Backyard farmers hooked on fish bait production (Chicklets, flies, beetles, earthworms).
Atlanta, Ga. : Department of Agriculture. Farmers & consumers market bulletin. July 4, 1984. v. 70 (27). p. 7. ill. (NAL Call No.: 280.39 G292).

0013
A bibliography of earthworm research / J.E. Satchell, Kyla Martin.
Satchell, J. E. ; Martin, Kyla. Grange-over-Sands, Cumbria, U.K. Institute of Terrestrial Ecology, Merlewood Research Station 1981. August 1981. 3, (172) p. ; 30 cm. (NAL Call No.: Z7996.W92S2).

0014
Biochemical polymorphism of earthworms. II. Enzymes of Lumbricus terrestris (Annelida, Oligochaeta).
Robotti, C.A. Jena, E. Ger., Gustav Fischer. Pedobiologia. 1982. v. 24 (1). p. 41-43. 12 ref. (NAL Call No.: 56.8 P343).

0015
Biochemical, serological, and phage typing characteristics of 459 Yersinia strains isolated from a terrestrial ecosystem (Crops, soil, earthworms, small mammals, and birds, human contamination, in France).
Bercovier, H. ; Brault, J. New York, Springer. Current microbiology. 1978/1979. v. 1 (6). p. 353-357. ill. 18 ref. (NAL Call No.: QR1.C78).

0016
Biological studies of the effects of farm-forestry management of pasture: earthworms (Allolobophora caliginosa, Lumbricus rubellus, Octolasium cyaneum).
McMillan, J.H. Wellington, Dept. of Scientific and Industrial Research, Science Information Division. New Zealand journal of agricultural research. 1981. v. 24 (2). p. 259-265. 23 ref. (NAL Call No.: 23 N4892).

0017
The brain and central control in the earthworm (Lumbricus terrestris).
McManus, F.E. ; Mendelson, T.; Wyers, E.J. New York, Academic Press. Behavioral and neural biology. May 1982. v. 35 (1). p. 1-16. 3 p. ref. (NAL Call No.: QH301.C63).

0018
Colonization by earthworms of NIIMI waste water treatment trenches.
Nakamura, Y. Jena, E. Ger., Gustav Fischer. Pedobiologia. 1982. v. 23 (6). p. 399-402. ill. 3 ref. (NAL Call No.: 56.8 P343).

0019
Communities of earthworms (Lumbridicae: Oligochaeta) in meadows of the Slovakia Carpathians (Czechoslovakia).
Zajonc, I. Jena, E. Ger., Gustav Fischer. Pedobiologia. 1982. v. 23 (3/4). p. 209-216. ill. Ref. (NAL Call No.: 56.8 P343).

0020
A comparative study of the earthworm population of four different woodland types in Wytham woods, Oxford (England).
Cuendet, G. Jena, E. Ger. : Gustav Fischer. Pedobiologia. 1984. v. 26 (6). p. 421-439. ill. Includes references. (NAL Call No.: 56.8 P343).

0021
Comparison of communities of earthworms (Lumbricidae) occurring in different ecosystems of agricultural landscape.
Ryl, B. Warszawa : Polish Scientific Publishers. Ekologia polska = Polish journal of ecology. 1984. v. 32 (1). p. 155-165. ill. Includes references. (NAL Call No.: 512 W263).

0022
Comparison of two methods for assessing the effects of carbofuran on soil animal decomposers in cornfields (Micro-arthropods, earthworm populations).
Broadbent, A.B.EVETB. ; Tomlin, A.D. College Park : Entomological Society of America. Environmental entomology. Oct 1982. v. 11 (5). p. 1036-1042. Includes references. (NAL Call No.: QL461.E532).

0023
Competitor-mediated coexistence: interactions among three species of benthic macroalgae (Eisenia arborea, Halidrys dioica, Pterocladia capillacea).
Kastendiek, J. Amsterdam, The Netherlands, Elsevier Biomedical. Journal of experimental marine biology and ecology. July 1, 1982. v. 62 (3). p. 201-210. 1 p. ref. (NAL Call No.: QH91.A1J6).

0024
Consumption of leaf litter by Lumbricus terrestris (Oligochaeta) on a Michigan woodland floodplain.
AMNAA. Knollenberg, W.G. ; Merritt, R. W.; Lawson, D.L. Notre Dame, Ind. : University of Notre Dame. American midland naturalist. Jan 1985. v. 113 (1). p. 1-6. Includes references. (NAL Call No.: DNAL 410 M58).

0025
Cultivation of Eisenia fetida using dairy waste sludge cake.
Hatanaka, K. ; Ishioka, Y.; Furuichi, E. London : Chapman and Hall, 1983. Earthworm ecology : from Darwin to vermiculture / edited by J.E. Satchell. p. 323-329. Includes 3 references. (NAL Call No.: DNAL QL391.A6E27).

0026
Cyclic fluctuations in the populations and distribution of three species of tropical earthworms in a farm yard garden in Bangalore (India).
Kale, R.D. ; Krishnamoorthy, R.V. Paris, France, Gauthier-Villars. Revue d'ecologie et de biologie du sol. Jan 1982. v. 19 (1). p. 61-71. ill. 22 ref. (NAL Call No.: S590.R4).

0027
Cycling of (soil) nitrogen by surface-casting earthworms in a pasture ecosystem.
Syers, J.K. ; Sharply, A.N. Oxford. Soil biology and biochemistry. 1979. v. 11 (2). p. 181-185. ill. 26 ref. (NAL Call No.: S592.7.A1S6).

0028
Decoloration of alginic acid products by organic solvent (Brown seaweed, Sargassum tasaense, Eisenia bicyclis).
Mizuno, H.NSUGA. ; Iso, N.; Saito, T.; Nozawa, T. Tokyo : The Society. Bulletin of the Japanese Society of Scientific Fisheries. Nov 1982. v. 48 (11). p. 1675. ill. 2 ref. (NAL Call No.: 414.9 J274).

0029
Decomposition of cassava peel by Eudrilus eugeniae (Kinberg) (Oligochaeta:Eudrilidae).
BTLTA. Mba, C.C. Leipzig, East Ger. : Karl-Marx-Universitat. Beitrage zur tropischen Landwirtschaft und Veterinarmedizin. 1984. v. 22 (1). p. 41-46. Includes 9 references. (NAL Call No.: DNAL 26 L53).

0030
Decomposition of sewage sludge in drying beds and the potential role of the earthworm, Eisenia foetida.
Mitchell, M.J. ; Hornor, S.G.; Abrams, B.I. Madison, Wis., American Society of Agronomy. Journal of environmental quality. July/Sept 1980. v. 9 (3). p. 373-378. ill. 40 ref. (NAL Call No.: QH540.J6).

0031
Designs aspects of vermicomposting of wastewater sludges (Using earthworms for composting).
Pincince, A.B. ; Donovan, J.F.; Bates, J.E. Silver Spring, Md., Hazardous Materials Control Research Institute. Proceedings ... National conference on municipal and industrial sludge composting operation, design, marketing, health issues. 1980. 1980. p. 83-87. (NAL Call No.: TD796.5.N3).

0032
Development of earthworm populations in abandoned arable fields under grazing management.
Eijsackers, H.J.P. London : Chapman and Hall, 1983. Earthworm ecology : from Darwin to vermiculture / edited by J.E. Satchell. p. 241-246. ill. Includes 6 references. (NAL Call No.: DNAL QL391.A6E27).

0033
Dietary cobalt supplements and the growth and reproduction of the earthworm Eisenia foetida.
SBIOA. Neuhauser, E.F. ; Meyer, J.A.; Malecki, M.R.; Thomas, J.M. Oxford, Eng. : Pergamon Press. Soil biology and biochemistry. 1984. v. 16 (5). p. 521-523. ill. Includes references. (NAL Call No.: DNAL S592.7.A1S6).

0034
The dissection of the earthworm / by R. H. Whitehouse and A. J. Grove.
Whitehouse, Richard Henry, 1883. ; Grove, Alfred John. London University Tutorial Press 1943. Includes index. 71, (1) p. ill., 19 cm. (NAL Call No.: QL391.O4W5).

0035
Distribution, abundance and species associations of earthworms (Lumbricidae) in a reclaimed peat soil in Ireland.
Baker, G.H.HOECD. Copenhagen : Munksgaard. Holarctic ecology. Feb 1983. v. 6 (1). p. 74-80. 32 ref. (NAL Call No.: QH540.H6).

0036
The distribution of aldicarb and its metabolites between Lumbricus terrestris, water and soil (Earthworms, insecticide toxicity).
Briggs, G.G.PSSCB. ; Lord, K.A. Oxford : Blackwell Scientific Publications. Pesticide science. Aug 1983. v. 14 (4). p. 412-416. Includes references. (NAL Call No.: SB951.P47).

0037
The earthworm.
Bennett, A. Wyoming, Rhode Island : Bio-Dynamic Farming and Gardening Association. Bio-dynamics. Summer 1984. Summer 1984. (151). p. 10-21. ill. Includes references. (NAL Call No.: 56.8 B52).

0038
Earthworm--an index of the physical nature of the soil.
Kalemurrahman, M. ; Ismail, A. Hebbal, Bangalore, India, The University. U.A.S. tech series - India, University of Agricultural Sciences. 1981. 1981. (37). p. 60-68. ill. Includes 13 ref. (NAL Call No.: S539.I4U53).

0039
Earthworm activity as a cause of splash erosion in a Luxembourg forest (Belgium).
Hooff, P. vanGEDMA. Amsterdam : Elsevier Scientific Publishing Company. Geoderma. Nov 1983. v. 31 (3). p. 195-204. ill., maps. Includes references. (NAL Call No.: S590.G4).

0040
Earthworm activity: the art of being a good mixer (Allolobophora caliginosa, beneficial effects on soil, formation of vegetable mold, Lumbricus rubellus, New Zealand).
Syers, K. Auckland : New Zealand Newspapers. The New Zealand farmer. Apr 26, 1984. 105 (8). p. 70-71. (NAL Call No.: 23 N484).

0041
Earthworm burrows as oviposition sites for western and northern corn rootworms (Diabrotica: Coleoptera).
Kirk, V.M. Lawrence, Kan., The Society. Journal of the Kansas Entomological Society. Jan 1981. v. 54 (1). p. 68-74. ill. 5 ref. (NAL Call No.: 420 K13).

0042
Earthworm composting (by Esenia foetida and Lumbricus rubellus)--a growing technology.
Carmody, F. Emmaus, Pa., J.G. Press. Compost science/land utilization. Sept/Oct 1979. v. 20 (5). p. 30-31. (NAL Call No.: 57.8 C734).

0043
Earthworm distribution and abundance along a mineral-peat soil transect.
Cotton, D.C.F. ; Curry, J.P. Oxford, Eng., Pergamon Press. Soil biology and biochemistry. 1982. v. 14 (3). p. 211-214. 11 ref. (NAL Call No.: S592.7.A1S6).

0044
Earthworm ecology from Darwin to vermiculture /edited by J.E. Satchell.
-.
; Satchell, J. E. London ; New York : Chapman and Hall, 1983. xvii, 495 p. : ill. ; 25 cm. Includes bibliographies and indexes. (NAL Call No.: DNAL QL391.A6E27).

0045
Earthworm ecology in cultivated soils.
Edwards, C.A. London : Chapman and Hall, 1983. Earthworm ecology : from Darwin to vermiculture / edited by J.E. Satchell. Literature review. p. 123-137. Includes 47 references. (NAL Call No.: DNAL QL391.A6E27).

0046
Earthworm ecology in deciduous forests in central and southeast Europe.
Zicsi, A. London : Chapman and Hall, 1983. Earthworm ecology : from Darwin to vermiculture / edited by J.E. Satchell. p. 171-177. Includes 11 references. (NAL Call No.: DNAL QL391.A6E27).

0047
Earthworm ecology in forest soils.
Satchell, J.E. London : Chapman and Hall, 1983. Earthworm ecology : from Darwin to vermiculture / edited by J.E. Satchell. p. 161-170. Includes 29 references. (NAL Call No.: DNAL QL391.A6E27).

0048
Earthworm ecology in grassland soils.
Syers, J.K. ; Springett, J.A. London : Chapman and Hall, 1983. Earthworm ecology : from Darwin to vermiculture / edited by J.E. Satchell. p. 67-83. Includes 40 references. (NAL Call No.: DNAL QL391.A6E27).

0049
Earthworm ecology in reclaimed opencast coal mining sites in Ohio.
Vimmerstedt, J.P. London : Chapman and Hall, 1983. Earthworm ecology : from Darwin to vermiculture / edited by J.E. Satchell. p. 229-240. Includes 10 references. (NAL Call No.: DNAL QL391.A6E27).

0050
Earthworm introduction to improve pasture soils (New Zealand).
Springett, J.A. Wellington : Butterworths. New Zealand agricultural science. May 1984. v. 18 (2). p. 61-64. ill. Includes 1 references. (NAL Call No.: S17.N4).

0051
Earthworm microbiology.
Satchell, J.E. London : Chapman and Hall, 1983. Earthworm ecology : from Darwin to vermiculture / edited by J.E. Satchell. Literature review. p. 351-364. Includes references. (NAL Call No.: DNAL QL391.A6E27).

0052
Earthworm (Oligochaeta: Lumbricidae) populations and late summer pasture renovation (after damage by soldier fly, Inopus rubriceps).
Martin, N.A. Wellington, Dept. of Scientific and Industrial Research, Science Information Division. New Zealand journal of agricultural research. 1980. v. 23 (3). p. 417-419. 6 ref. (NAL Call No.: 23 N4892).

0053
Earthworm population dynamics in different agricultural rotations.
Lofs-Holmin, A. London : Chapman and Hall, 1983. Earthworm ecology : from Darwin to vermiculture / edited by J.E. Satchell. p. 151-160. Includes 5 references. (NAL Call No.: DNAL QL391.A6E27).

0054
Earthworm populations in a Venezuelan tropical rain forest.
Nemeth, A. ; Herrera, R. Jena, E. Ger., Gustav Fischer. Pedobiologia. 1982. v. 23 (6). p. 437-443. ill. 9 ref. (NAL Call No.: 56.8 P343).

0055
Earthworm populations in soils disturbed by trampling (Livestock in pasture entrances).
Pearce, T.G. Barking, Eng. : Applied Science Publishers. Biological conservation. 1984. v. 29 (3). p. 241-252. Includes references. (NAL Call No.: S900.B5).

0056
The earthworm populations of experimental Betula plots on a Calluna Podzol.
Satchell, J.E. Jena, Gustav Fischer. Pedobiologia. 1980. v. 20 (3). p. 151-153. 8 ref. (NAL Call No.: 56.8 P343).

0057
Earthworm populations of experimental birch (Betula) plots on a Calluna podzol.
Satchell, J.E. Oxford, Pergamon Press. Soil biology and biochemistry. 1980. v. 12 (4). p. 311-316. ill. 6 ref. (NAL Call No.: S592.7.A1S6).

0058
The earthworm (Soil microorganisms).
Rudel, S. Clent, Stourbridge, Eng., Bio-dynamic Agricultural Association. Star and furrow. Winter 1978. Winter 1978. (51). p. 1-6. 7 ref. (NAL Call No.: 10 ST2).

0059
Earthworms (Anatomy, ecology, soil fertility, waste management).
Laird, J.M. ; Kroger, M. Boca Raton, Fla., CRC Press. CRC critical reviews in environmental control. 1981. Literature review. v. 11 (3). p. 189-218. 48 ref. (NAL Call No.: QH545.A1C7).

0060
Earthworms and agriculture (Uses, practices).
Blackshaw, R.P.AGNIA. Belfast : Her Majesty's Stationery Office. Agriculture in Northern Ireland. June 1983. v. 58 (2). p. 53-55. (NAL Call No.: 256.13 AG82M).

0061
Earthworms and land reclamation.
Curry, J.P. ; Cotton, D.C.F. London : Chapman and Hall, 1983. Earthworm ecology : from Darwin to vermiculture / edited by J.E. Satchell. p. 215-228.

maps. Includes references. (NAL Call No.: DNAL QL391.A6E27).

0062
Earthworms and rose bed tilth.
Seymore, G. Shreveport, La., American Rose Society. American rose annual. 1980. 1980. (65). p. 100-103. (NAL Call No.: 81 AM31A).

0063
Earthworms and soil fertility (Effect on soil penetrability and nutrient supply).
Syers, J.K. ; Springett, J.A. The Hague : Martinus Nijhoff. Plant and soil. 1984. v. 76 (1/3). p. 93-104. ill. Includes 30 references. (NAL Call No.: 450 P696).

0064
Earthworms and TCDD (2,3,7,8-tetrachlorodibenzo-p-dioxin) in Seveso.
Martinucci, G.B. ; Crespi, P.; Omodeo, P.; Osella, G.; Traldi, G. London : Chapman and Hall, 1983. Earthworm ecology : from Darwin to vermiculture / edited by J.E. Satchell. p. 275-283. Includes 6 references. (NAL Call No.: DNAL QL391.A6E27).

0065
Earthworms and topsoil mining at Judgeford (Long and short term effects, pastures).
McColl, H.P. ; Lautour, M.L. de. Lower Hutt, New Zealand Society of Soil Science. New Zealand soil news. Oct 1978. v. 26 (5). p. 148-152. ill. 19 ref. (NAL Call No.: 56.8 N48).

0066
Earthworms and water movement (in soil).
Carter, A. ; Heinonen, J.; Vries, J. de. Jena, E. Ger., Gustav Fischer. Pedobiologia. 1982. v. 23 (6). p. 395-397. ill. (NAL Call No.: 56.8 P343).

0067
Earthworms are money-makers! (Soil structure improvement).
Rodale, R. Emmaus, Pa. Organic gardening. Mar 1979. v. 26 (3). p. 26-28, 30-31. ill. (NAL Call No.: 57.8 OR32).

0068
Earthworms as a bioindicator of radioactive contamination of soil.
Krivolutskii, D.A. ; Semyashkina, T.M.; Mikhal'tsova, Z.A.; Turchaninova, V.A. New York, Consultants Bureau. The Soviet journal of ecology. Nov/Dec 1980 (pub. 1981). Translated from: Ekologiia, p. 67-72. (QH540.E3). v. 11 (16). p. 379-383. ill. 12 ref. (NAL Call No.: QH540.E32).

0069
Earthworms as a source of food and drugs.
Sabine, J.R. London : Chapman and Hall, 1983. Earthworm ecology : from Darwin to vermiculture / edited by J.E. Satchell. Literature review. p. 285-296. Includes references. (NAL Call No.: DNAL QL391.A6E27).

0070
Earthworms as bioindicators of radioactive soil pollution.
Krivolutsky, D. ; Turcaninova, V.; Mikhaltsova, Z. Jena, E. Ger., Gustav Fischer. Pedobiologia. 1982. v. 23 (3/4). p. 263-265. 2 ref. (NAL Call No.: 56.8 P343).

0071
Earthworms as coprophagous "secondary" or "tertiary" feeders of forest litter (Bradysia brunnipes (Diptera), millipedes, soil ecosystems).
Pobozsny, M. Budapest, Akademiai Kiado. Acta zoologica - Academiae scientiarum Hungaricae. 1981. v. 27 (3/4). p. 389-397. ill. 16 ref. (NAL Call No.: 410 AC85).

0072
Earthworms as pests and otherwise by W.R. Walton . -.
Walton, W. R. Washington, D.C. : U.S. Dept. of Agriculture, 1935. ii, 14 p. : ill. -. Includes bibliographical references. (NAL Call No.: DNAL Fiche S-70 no.1569 1935).

0073
Earthworms (detrimental) in pot plant soils.
Klein, T. ; Koths, J.S. Storrs, Cooperative Extension Service, College of Agriculture and Natural Resources, The University of Connecticut. Connecticut greenhouse newsletter. July 1978. July 1978. (87). p. 7-8. (NAL Call No.: SB415.C625).

0074
Earthworms for soil health and pollution control.
Sharma, N. ; Madan, M. New Delhi : Council of Scientific And Industrial Research. Journal of scientific and industrial research. Oct 1983. Literature review. v. 42 (10). p. 575-583. ill. Includes 78 references. (NAL Call No.: 475 J82).

0075
Earthworms in meadow soils as an indicator of pasture grazing system.
Antoshchenkov, V.F. ; Vasilevskii, M.I.; Nasekina, L.F. New York, Consultants Bureau. The Soviet journal of ecology. May/June 1980 (pub. 1981). v. 11 (3). p. 192-196. 18 ref. (NAL Call No.: QH540.E32).

0076
Earthworms in New Zealand agriculture.
Martin, N.A. Palmerston North, New Zealand Weed and Pest Control Society. ProceedingsNew Zealand Weed and Pest Control Conference. 1978. 1978. (31st). p. 176-180. ill. 10 ref. (NAL Call No.: 79.9 N213).

0077
The earthworms of Maryland.
Reynolds, John Warren. (Tallahassee, Fla. Tall Timbers Research Station) 1974. 12 p. : maps. -. Bibliography: p. 10-12. (NAL Call No.: QL391.A6M4 v.1, No.11).

0078
Earthworms of tropical regions--some aspects of their ecology and relationships with soils.
Lee, K.E. London : Chapman and Hall, 1983. Earthworm ecology : from Darwin to vermiculture / edited by J.E. Satchell. p. 179-193. Includes 41 references. (NAL Call No.: DNAL QL391.A6E27).

0079
Earthworms of two Minnesota forest areas (Lumbricidae).
Morgenweck, R.D.JMNAA. ; Marshall, W.H. St. Paul : The Academy. Journal of the Minnesota Academy of Science. 1982/1983. v. 48 (1). p. 18-21. maps. Includes references. (NAL Call No.: 500 M663).

0080
Earthworms, organic waste and food (Breakdown of waste into plant food, worms as animal feed protein additive).
Edwards, C.A. Foston : J.G.R. Stevens. Span : progress in agriculture. 1983. v. 26 (3). p. 106-108. ill. (NAL Call No.: 464.8 SP2).

0081
Earthworms: raising, uses, beneficial aspects, 1978-1981.
Rafats, J. Beltsville, Md. : The Library. Quick bibliography series - National Agricultural Library. Apr 1982. Supersedes Quick Bibliography no. 80-14 -Bibliography. Apr 1982. (82-06). 12 p. (NAL Call No.: aZ5071.N3).

0082
The ecology of earthworms in southern Africa.
Reinecke, A.J. London : Chapman and Hall, 1983. Earthworm ecology : from Darwin to vermiculture / edited by J.E. Satchell. p. 195-207. Includes 20 references. (NAL Call No.: DNAL QL391.A6E27).

0083
The economic feasibility of earthworm culture on animal wastes.
Fieldson, R.S. London : Elsevier Applied Science Publishers, c1985. Composting of agricultural and other wastes / edited by J.K.R. Gasser. p. 243-254. ill. Includes 14 references. (NAL Call No.: DNAL S661.C65).

0084
The economic future of the earthworm in recycling (Composting).
Franz, M.F. Emmaus, Pa., J.G. Press. Compost science/land utilization. Nov/Dec 1978. v. 19 (6). p. 23-26. ill. (NAL Call No.: 57.8 C734).

0085
Effect of aromatic compounds, humic acids and lignins on growth of the earthworm Eisenia foetida.
Hartenstein, R.SBIOA. Oxford : Pergamon Press. Soil biology and biochemistry. 1982. v. 14 (6). p. 595-599. 20 ref. (NAL Call No.: S592.7.A1S6).

0086
The effect of direct drilling and minimal cultivation on earthworm populations (England).
Edwards, C.A.JAPEA. ; Lofty, J.R. Oxford : Blackwell Scientific. Journal of applied ecology. Dec 1982. v. 19 (3). p. 723-734. 16 ref. (NAL Call No.: 410 J828).

0087
Effect of dung-beetles (Aphodius spp.) and earthworms on the disappearance of cattle dung.
Holter, P. Copenhagen, Munksgaard. Oikos. 1979. v. 32 (3). p. 393-402. ill. 26 ref. (NAL Call No.: 410 OI4).

0088
The effect of earthworm activity on the (turf) drainage characteristics of winter sports pitches (Soil pore structure and infiltration, water retention).
Baker, S.W. Bingley, The Institute. The Journal of the Sports Turf Research Institute. June 1981. v. 57. p. 9-23. ill. Bibliography p. 22-23. (NAL Call No.: 60.19 B772).

0089
The effect of earthworm casts on ryegrass seedlings (Lumbricus rubellus).
Springett, J.A. ; Syers, J.K. Wellington, N.Z., P.D. Hasselberg, Govt. Printer. Proceedings ... Australasian Conference on Grassland Invertebrate Ecology. 1978 (pub. 1980). 1978 (pub. 1980). (2nd). p. 44-47. ill. Includes 10 ref. (NAL Call No.: QH541.5.P7A82).

0090
The effect of earthworms (Lumbricidae) of ploughing, tined cultivation, direct drilling and nitrogen in a barley monoculture system.
Gerard, B.M. ; Hay, R.K.M. Cambridge, Cambridge University Press. Journal of agricultural science. Aug 1979. v. 93 (pt.1). p. 147-155. ill. 27 ref. (NAL Call No.: 10 J822).

0091
Effect of earthworms on grassland on recently reclaimed polder soils in the Netherlands.
Hoogerkamp, M. ; Rogaar, H.; Eijsackers, H.J.P. London : Chapman and Hall, 1983. Earthworm ecology : from Darwin to vermiculture / edited by J.E. Satchell. p. 85-105. ill. Includes 14 references. (NAL Call No.: DNAL QL391.A6E27).

0092
Effect of earthworms on the disappearance rate of cattle droppings.
Holter, P. London : Chapman and Hall, 1983. Earthworm ecology : from Darwin to vermiculture / edited by J.E. Satchell. p. 49-57. Includes 13 references. (NAL Call No.: DNAL QL391.A6E27).

0093
The effect of earthworms on the quality of barley and rye grain.
Atlavinyte, O. ; Vanagas, J. Jena, E. Ger., Gustav Fischer. Pedobiologia. 1982. v. 23 (3/4). p. 256-262. 15 ref.

(NAL Call No.: 56.8 P343).

0094
Effect of five species of earthworm on some soil properties (Allolobophora caliginosa, Allolobophora longa, Allolobophora trapezoides, Lumbricus rubellus, and Octolasion cyaneum).
Springett, J.A. Oxford : Blackwell Scientific. Journal of applied ecology. Dec 1983. v. 20 (3). p. 865-872. Includes references. (NAL Call No.: 410 J828).

0095
The effect of gamma-BHC (lindane, an organochloric insecticide) on the oxygen consumption of the earthworm, Megascolex mauritii--a chrono-toxicological approach.
Uthaman, M. ; Hemalatha, V. Bangalore. Current science. Apr 20, 1979. v. 48 (8). p. 369-370. ill. 9 ref. (NAL Call No.: 475 SCI23).

0096
The effect of metals on the growth and reproduction of Eisenia foetida (Oligochaeta, Lumbricidae).
Malecki, M.R.PDBLA. ; Neuhauser, E.F.; Loehr, R.C. Jena, E. Ger. : Gustav Fischer. Pedobiologia. 1982. v. 24 (3). p. 129-137. ill. 1 p. ref. (NAL Call No.: 56.8 P343).

0097
The effect of mineral fertilization (NPK) (nitrogen, phosphorus, potassium) on nutrient metabolism in earthworms (Lumbricidae).
Kalinowska, A. ; Makulec, G. 00 Warszawa, Polish Scientific Publishers. Polish ecological studies. 1978. v. 4 (1). p. 157-166. ill. 22 ref. (NAL Call No.: QH540.P62).

0098
Effect of N fertilization on earthworm and microarthropod populations in Kentucky bluegrass turf.
AGJOAT. Potter, D.A. ; Bridges, B.L.; Gordon, F.C. Madison, Wis. : American Society of Agronomy. Agronomy journal. May/June 1985. v. 77 (3). p. 367-372. Includes references. (NAL Call No.: DNAL 4 AM34P).

0099
Effect of pH and calcium of soil on earthworm cast production in the laboratory (Allolobophora caliginosa).
Springett, J.A. ; Syers, J.K. Oxford, Eng. : Pergamon Press. Soil biology and biochemistry. 1984. v. 16 (2). p. 185-189. Includes references. (NAL Call No.: S592.7.A1S6).

0100
Effect of surface-casting earthworms on the transport of phosphorus and nitrogen in surface runoff from pasture.
Sharpley, A.N. ; Syers, J.K. Oxford, Pergamon Press. Soil biology and biochemistry. 1979. v. 11 (5). p. 459-462. ill. 17 ref. (NAL Call No.: S592.7.A1S6).

0101
Effect of the earthworm, Eisenia foetida (oligochaeta), on fluxes of volatile carbon and sulfur compounds from sewage sludge (decomposition).
Hornor, S.G. ; Mitchell, M.J. Oxford, Pergamon Press. Soil biology & biochemistry. 1981. v. 13 (5). p. 367-372. ill. 33 ref. (NAL Call No.: S592.7.A1S6).

0102
Effect of the earthworm Eisenia foetida, on sulfur speciation and decomposition in sewage sludge.
Waugh, J.H. ; Mitchell, M.J. Jena, Gustav Fischer. Pedobiologia. 1981. v. 22 (4). p. 268-275. ill. Includes 3 p. ref. (NAL Call No.: 56.8 P343).

0103
Effects of a fallow period on soil animals and DDT residues following cultivation and DDT application to a sub-humid tropical forest soil (Earthworms, microarthropods).
Russell-Smith, A. ; Cook, A.; Barlow, F. Louvain-La-Neuve, Belgique : Dieu-Brichart, (1983?). New trends in soil biology : proceedings of the VIII International Colloquium of Soil Zoology ; Louvain-La-Neuve, 30-VIII - 2-IX-1982 / edited by P. Lebrun ... (et al.). p. 551-559. ill. Includes references. (NAL Call No.: QL110.I5 1982).

0104
The effects of cattle and pig slurry fertilizers on earthworms (Oligochaeta, Lumbricidae) in grassland managed for silage production.
Cotton, D.C.F. ; Curry, J.P. Jena, Gustav Fischer. Pedobiologia. 1980. v. 20 (3). p. 181-188. ill. 24 ref. (NAL Call No.: 56.8 P343).

0105
Effects of different methods of cultivation and direct drilling, and disposal of straw residues, on populations of earthworms.
Barnes, B.T. ; Ellis, F.B. Oxford, Clarendon Press. The Journal of soil science. Dec 1979. v. 30 (4). p. 699-679. ill. Bibliography p. 679. (NAL Call No.: 56.8 J823).

0106
Effects of earthworm (Lumbricus terrestris, Allolobophora longa) inoculation upon the root growth of direct drilled cereals (Beneficial effects).
Edwards, C.A. ; Lofty, J.R. Oxford, Blackwell Scientific Publications. The Journal of applied ecology. Dec 1980. v. 17 (3). p. 533-543. ill. Bibliography p. 542-543. (NAL Call No.: 410 J828).

0107
Effects of earthworms and ryegrass on respiratory and enzyme activities of soil (Allolobophora caliginosa, Lolium perenne, Judgeford silt loam, New Zealand).
Ross, D.J.SBIOA. ; Cairns, A. Oxford : Pergamon Press. Soil biology and biochemistry. 1982. v. 14 (6). p.

583-587. 2 p. ref. (NAL Call No.: S592.7.A1S6).

0108
Effects of entobacterin on earthworm activity.
Atlavinyte, O. ; Galvelis, A.; Daciulyte, J.; Lugauskas, A. Jena, E. Ger., Gustav Fischer. Pedobiologia. 1982. v. 23 (5). p. 372-379. ill. 10 ref. (NAL Call No.: 56.8 P343).

0109
Effects of fire and soil type on earthworm populations in a tallgrass prairie (Ecology, United States of America).
James, S.W. Jena, E. Ger., Gustav Fischer. Pedobiologia. 1982. v. 24 (1). p. 37-40. 15 ref. (NAL Call No.: 56.8 P343).

0110
Effects of fire on the nutrient content and microflora of casts of Pheretima alexandri.
Reddy, M.V. London : Chapman and Hall, 1983. Earthworm ecology : from Darwin to vermiculture / edited by J.E. Satchell. p. 209-213. Includes 18 references. (NAL Call No.: DNAL QL391.A6E27).

0111
Effects of heavy metal and other elemental additives to activated sludge on growth of Eisenia foetida (Earthworms).
Hartenstein, R. ; Neuhauser, E.F.; Narahara, A. Madison, Wis., American Society of Agronomy. Journal of environmental quality. July/Sept 1981. v. 10 (3). p. 372-376. ill. 22 ref. (NAL Call No.: QH540.J6).

0112
Effects of introduced earthworms on the productivity of New Zealand pastures.
Stockdill, S.M.J. Jena, E. Ger., Gustav Fischer. Pedobiologia. 1982. v. 24 (1). p. 29-35. ill. 13 ref. (NAL Call No.: 56.8 P343).

0113
Effects of liming and deciduous litter on earthworm (Lumbricidae) populations of a spruce forest, with an inoculation experiment on Allolobophora caliginosa.
Huhta, V. Jena, Gustav Fischer. Pedobiologia. 1979. v. 19 (5). p. 340-345. ill. 17 ref. (NAL Call No.: 56.8 P343).

0114
Effects of municipal sewage effluent irrigation on the trace metal content of earthworms.
Moreau, Jean-Pierre. Syracuse State University of New York, College of Environmental Science and Forestry Springfield, Va. for sale by the National Technical Information Service 1977. Thesis (M.S.)--State University of New York. vii, 76 leaves : ill. -. Bibliography: leaves 60-66. (NAL Call No.: 157.8 R29 No.287596).

0115
Effects of soil-applied sewage sludge on concentrations of elements in earthworms.
Helmke, P.A. ; Robarge, W.P. Madison, American Society of Agronomy. Journal of environmental quality. July/Sept 1979. v. 8 (3). p. 322-327. ill. 12 ref. (NAL Call No.: QH540.J6).

0116
Effects of soil management practices on soil physical properties, earthworm population and tree root distribution in a commercial apple orchard.
Haynes, R.J. Amsterdam, Elsevier Scientific Publishing Co. Soil & tillage research. Aug 1981. v. 1. (3). p. 269-280. ill. 20 ref. (NAL Call No.: S590.S48).

0117
Effects of tillage methods on earthworm populations in monoculture corn.
De St. Remy, E.A.CJSSA. ; Daynard, T.B. Ottawa : Agricultural Institute of Canada. Canadian journal of soil science = Revue canadienne de la science du sol. Nov 1982. v. 62 (4). p. 699-703. 12 ref. (NAL Call No.: 56.8 C162).

0118
Enchytraeids, lumbricids and soil arthropods in a northern deciduous woodland--a quantitative study (Sweden).
Axelsson, B. ; Lohm, U.; Persson, T. Copenhagen : Munksgaard. Holarctic ecology. May 1984. v. 7 (2). p. 91-103. ill. Includes references. (NAL Call No.: QH540.H6).

0119
Energetics of earthworm populations in tropical pastures from India (Soil ecosystems).
Senapati, B.K. ; Dash, M.C. Bangalore : The Academy. Proceedings. Animal sciences - Indian Academy of Sciences. July 1983. v. 92 (4). p. 315-321. Includes references. (NAL Call No.: QL1.I48).

0120
Evidence of interspecific interactions in the respiration of earthworms (Pasture and crop field soils, India).
Mishra, P.C. ; Dash, M.C. Varanasi, International Society for Tropical Ecology. Tropical ecology. Summer 1979. v. 20 (1). p. 13-16. ill. 9 ref. (NAL Call No.: 451 IN85).

0121
Evolution and ecology of parthenogenesis in earthworms.
Jaenike, J. ; Selander, R.K. Utica, American Society of Zoologists. American zoologist. 1979. v. 19 (3). p. 729-737. ill. Bibliography p. 736-737. (NAL Call No.: 410 AM3).

0122
Factors affecting the longevity of earthworms stored in peat (Eisenia fetida).
Satchell, J.E. ; Dottie, D.J. Oxford : Blackwell Scientific. Journal of applied ecology. Apr 1984. v. 21 (1). p.

285-291. Includes references. (NAL Call No.: 410 J828).

0123
The fertile earth. 6. Breed your own earthworms.
Bradley, R.J. Sydney, Murray Pub. Good gardening. Feb/Mar 1979. Feb/Mar 1979. (37). p. 69. (NAL Call No.: SB403.G6).

0124
Fluctuation of earthworm population in different soil conditions (India).
Choudhuri, D.K.GEBSA. ; Mitra, K. Jodphur : Dr. David N. Sen. Geobios. Mar 1983. v. 10 (2). p. 55-59. Includes references. (NAL Call No.: QH301.A1G4).

0125
Functional morphology of lumbricid earthworms, with special reference to locomotion.
Pierce, T.G.JNAHA. London : Taylor & Francis. Journal of natural history. Jan/Feb 1983. v. 17 (1). p. 95-111. Includes references. (NAL Call No.: QH7.J6).

0126
Fungal feeding by a tropical earthworm (in pasture soils).
Dash, M.C. ; Mishra, P.C.; Behera, N. Varanasi, International Society for Tropical Ecology. Tropical ecology. Summer 1979. v. 20 (1). p. 9-12. 14 ref. (NAL Call No.: 451 IN85).

0127
Growth of the earthworm Eisenia foetida on microorganisms and cellulose.
SBIOA. Flack, F.M. ; Hartenstein, R. Oxford, Eng. : Pergamon Press. Soil biology and biochemistry. 1984. v. 16 (5). p. 491-495. Includes references. (NAL Call No.: DNAL S592.7.A1S6).

0128
Growth patterns in the earthworm Nicodrilus caliginosus (Oligochaeta: Lumbricidae) during the first year of life.
Mazantseva, G.P. Jena, E. Ger., Gustav Fischer. Pedobiologia. 1982. v. 23 (3/4). p. 272-276. ill. 5 ref. (NAL Call No.: 56.8 P343).

0129
Growth, reproduction and litter and soil consumption by Lumbricus terrestris L. in reclaimed peat (Earthworms, Ireland).
Curry, J.P. ; Bolger, T. Oxford, Eng. : Pergamon Press. Soil biology and biochemistry. 1984. v. 16 (3). p. 253-257. ill. Includes references. (NAL Call No.: S592.7.A1S6).

0130
Gut load and turnover of soil, plant and fungal material by Drawida calebi, a tropical earthworm.
REBSA. Dash, M.C. ; Satpathy, B.; Behera, N.; Dei, C. Limoges : Gauthier-Villars. Revue d'ecologie et de biologie du sol. July 1984. v. 21 (3). p. 387-393. Includes 18 references. (NAL Call No.: DNAL S590.R4).

0131
Heavy metals in earthworms as an index of soil contamination.
Czarnowska, K. ; Jopkiewicz, K. Warszawa, Polish Scientific Publishers. Polish journal of soil science. 1978 (pub. 1979). v. 11 (1). p. 57-62. ill. 16 ref. (NAL Call No.: S590.P62).

0132
Heavy metals in earthworms in non-contaminated and contaminated agricultural soil from near Vancouver, Canada.
Carter, A. ; Kenney, E.A.; Guthrie, T.F.; Timmenga, H. London : Chapman and Hall, 1983. Earthworm ecology : from Darwin to vermiculture / edited by J.E. Satchell. p. 267-274. Includes 8 references. (NAL Call No.: DNAL QL391.A6E27).

0133
The importance of earthworms for the regeneration of soil fertility with retrospect to the Himalaya.
Kollmannsperger, F. New Delhi, English Book Store. Studies in Himalayan ecology and development strategies. 1980. 1980. p. 172-181. (NAL Call No.: QH541.5.M65S75).

0134
Influence of agricultural practices on earthworms (Lumbricidae) (Soil earthworm populations, Sweden).
Lofs-Holmin, A. Stockholm : Scandinavian Association of Agricultural Scientists. Acta agriculturae scandinavica. 1983. v. 33 (3). p. 225-234. ill., maps. Includes references. (NAL Call No.: 11 AC82).

0135
The influence of arthropods and earthworms (Lumbricus terrestris, Allobophora longa, Allolobophora caliginosa, Allolobophora chlorotica) upon root grawth of direct drilled cereals (Barley).
Edwards, C.A. ; Lofty, J.R. Oxford. Journal of applied ecology. Dec 1978. v. 15 (3). p. 789-795. ill. Bibliography p. 794-795. (NAL Call No.: 410 J828).

0136
The influence of climatic conditions on activity and vertical distribution of earthworms in a Danish arable soil.
Andersen, C. Copenhagen, Det Hojskole. Aarsskrift. Yearbook. Annuaire. Jahrbuch - Copenhagen Veterinaer- og landbohojskole. 1980. 1980. p. 57-68. 8 ref. (NAL Call No.: 104 D41A).

0137
Influence of dieldrin on the reproduction of the earthworm Eisenia fetida (Oligochaeta).
Reinecke, A.J. ; Venter, J.M. Berlin : Springer International. Biology and fertility of soils. 1985. v. 1 (1). p. 39-44. Includes references. (NAL Call No.: DNAL QH84.8.B46).

0138
The influence of earthworms and termites on soil nitrogen cycling (Macrofauna).
Lee, K.E. Louvain-La-Neuve, Belgique : Dieu-Brichart, (1983?). New trends in soil biology : proceedings of the VIII International Colloquium of Soil Zoology ; Louvain-La-Neuve, 30-VIII - 2-IX-1982 / edited by P. Lebrun ... (et al.). Literature review. p. 35-48. Includes references. (NAL Call No.: QL110.I5 1982).

0139
Influence of earthworms on soil permeability.
Bezborodov, G.A. ; Khalbayeva, R.A. Silver Spring, Md. : Scripta Publishing Co. Soviet soil science. Jan/Feb 1983 (pub.1984). Translated from: Pochvovedenie, p. 64-67. (57.8 P34). v. 15 (1). p. 98-101. Includes references. (NAL Call No.: 57.8 P34AE).

0140
Influence of earthworms on some soil chemical and physical properties, and the growth of ryegrass on a soil after topsoil stripping--a pot experiment (Lolium perenne, soil fertility).
McColl, H.P. ; Hart, P.B.S.; Cook, F.J. Wellington, New Zealand, Dept. of Scientific and Industrial Research, Science Information Division. New Zealand journal of agricultural research. 1982. v. 25 (2). p. 229-237. 2 p. ref. (NAL Call No.: 23 N4892).

0141
Ingestion of earthworms, Pontoscolex corethrurus, by village pigs, Sus scrofa papuensis, in the highlands of Papua New Guinea (Behavior).
Rose, C.J. ; Williams, W.T. Amsterdam : Elsevier. Applied animal ethology. Nov 1983. v. 11 (2). p. 131-139. Includes references. (NAL Call No.: QL750.A6).

0142
Insect and mite pests of earthworm cultures.
Johnson, James W. 1979. Document available from: Distribution Center, Umberger Hall, Kansas State Univ., Manhattan, KS 66506. 1 sheet : ill. (NAL Call No.: AF 45).

0143
Integumentary uptake of dissolved organic materials by earthworms.
Richards, K.S. ; Arme, C. Jena, E. Ger., Gustav Fischer. Pedobiologia. 1982. v. 23 (5). p. 358-366. ill. 17 ref. (NAL Call No.: 56.8 P343).

0144
The interaction between organic matter in soil and the burrowing activity of three species of earthworms (Oligochaeta: Lumbricidae).
Martin, N.A.PDBLA. Jena, E. Ger. : Gustav Fischer. Pedobiologia. 1982. v. 24 (4). p. 185-190. ill., map. 4 ref. (NAL Call No.: 56.8 P343).

0145
Interactions between earthworms and their soil environment.
Abbott, I. ; Parker, C.A. Oxford, Pergamon Press. Soil biology & biochemistry. 1981. v. 13 (3). p. 191-197. ill. 27 ref. (NAL Call No.: S592.7.A1S6).

0146
Interactions between earthworms, soil organic matter and microflora in an African savanna soil (Millsonia anomala).
Lavelle, P. ; Zaidi, Z.; Schaefer, R. Louvain-La-Neuve, Belgique : Dieu-Brichart, (1983?). New trends in soil biology : proceedings of the VIII International Colloquium of Soil Zoology ; Louvain-La-Neuve, 30-VIII - 2-IX-1982 / edited by P. Lebrun ... (et al.). p. 253-259. ill. Includes references. (NAL Call No.: QL110.I5 1982).

0147
Interactions between the earthworm Allolobophora caliginosa and ryegrass (Lolium perenne) insubsoil after topsoil stripping--a pot experiment.
McColl, H.P. Plympton, S.A. : Government Printing Division, 1982 . Proceedings of the 3rd Australasian Conference on Grassland Invertebrate Ecology / K.E. Lee, editor. p. 321-330. Includes references. (NAL Call No.: DNAL QH541.5.P7A82 1981).

0148
Japanese earthworms : a synopsis of the Megadrile species (Oligochaeta) / E.G. Easton.
Easton, E. G. London British Museum (Natural History) 1981. Cover title. p. 33-65 ; 25 cm. -. Bibliography: p. 61-65. (NAL Call No.: 410.9 B772B v.40 no.2).

0149
Lumbricid earthworm activities and nutrient cycling in pasture ecosystems.
Keogh, R.G. Wellington, N.Z., P.D. Hasselberg, Govt. Printer. Proceedings ... Australasian Conference on Grassland Invertebrate Ecology. 1978 (pub. 1980). 1978 (pub. 1980). (2nd). p. 49-51. Includes 22 ref. (NAL Call No.: QH541.5.P7A82).

0150
Lumbricid earthworms and cattle dung in New Zealand pastures.
Martin, N.A. ; Charles, J.C. Wellington, N.Z., P.D. Hasselberg, Govt. Printer. Proceedings ... Australasian Conference on Grassland Invertebrate Ecology. 1978 (pub. 1980). 1978 (pub. 1980). (2nd). p. 52-54. Includes 6 ref. (NAL Call No.: QH541.5.P7A82).

0151
Lumbricid populations in open cast reclamation sites and colliery spoil heaps in County Durham, U.K.
Standen, V. ; Stead, G.B.; Dunning, A. Jena, E. Ger., Gustav Fischer. Pedobiologia. 1982. v. 24 (1). p. 57-64. ill. 7 ref. (NAL Call No.: 56.8 P343).

0152
Lumbricids and soil types in prealpine and alpine woods.
Martinucci, G. ; Sala, G. Padova, Unione zoologica italiana. Bollettino di zoologia. 1979. v. 46 (4). p.279-297. ill. , map. 30 ref. (NAL Call No.: 410 B63).

0153
Materials supporting weight gain by the earthworm Eisenia foetida in waste converion systems.
Neuhauser, E.F. ; Kaplan, D.L.; Malecki, M.R.; Hartenstein, R. London, Applied Science Publishers. Agricultural wastes. Jan/Mar 1980. v. 2 (1). p. 43-60. ill. 20 ref. (NAL Call No.: TD930.A32).

0154
Measuring growth of earthworms as a method of testing sublethal toxicity of pesticides--Experiments with benomyl and trichloroacetic acid (TCA).
Lofs-Holmin, A. Uppsala, Swedish University of Agricultural Sciences. Swedish journal of agricultural research. 1980. v. 10 (1). p. 25-33. ill. 24 ref. (NAL Call No.: S3.S8).

0155
Methods of extraction and analysis of PCBs from earthworms.
Tarradellas, J.IJEAC. ; Diercxsens, P.; Bouche, M.B. New York : Gordon and Breach Science Publishers. International journal of environmental analytical chemistry. 1982. v. 13 (1). p. 55-67. 24 ref. (NAL Call No.: QH540.I52).

0156
Morphological and cytochemical studies on the spermatogenesis in Eisenia foetida and Bimastus parva (Earthworms).
Sareen, M.L. ; Verma, V. Hoshiarpur : The University. Research bulletin - Panjab University. Science. Dec 1983. v. 34 (pt.3/4). p. 125-130. ill. Includes 27 references. (NAL Call No.: 513 EA72).

0157
Mowing, thatching and aerifying turf.
Daniel, W. H. 1977. Document available from: Mailing Room, Ag. Administration Bldg., Purdue University, W. Lafayette, Indiana 47907. 1 sheet. (NAL Call No.: AY-8).

0158
Nematicides and field population of enchytraeids and earthworms (Oxamyl and phenamiphos, New Zealand).
McColl, H.P. Oxford, Eng. : Pergamon Press. Soil biology and biochemistry. 1984. v. 16 (2). p. 139-143. Includes references. (NAL Call No.: S592.7.A1S6).

0159
New knowledge on the genus Eiseniella (Lumbricidae) (Earthworms, northern Slovakia).
Zajonc, I. Bratislava, Slovenska akademia vied. Biologia. Seria B: Zoologia. 1980. v. 35 (5). p. 341-348. ill. 21 ref. (NAL Call No.: QL1.B5).

0160
Nitrogen turnover by earthworms in arable plots treated with farmyard manure and slurry.
Andersen, N.C. London : Chapman and Hall, 1983. Earthworm ecology : from Darwin to vermiculture / edited by J.E. Satchell. p. 139-150. Includes 17 references. (NAL Call No.: DNAL QL391.A6E27).

0161
Nitrogenous fertilizers and earthworm populations in agricultural soils (United Kingdom).
Edwards, C.A. ; Lofty, J.R. Oxford, Pergamon Press. Soil biology and biochemistry. 1982. v. 14 (5). p. 515-521. 1 p. ref. (NAL Call No.: S592.7.A1S6).

0162
Numbers, biomass and vertical distribution of earthworms of the pastures in regions of Krakow and Jaworki (Important constituents of soil fauna).
Wendorff, A. ; Brzezinska, E. Krakow, Zaklad Narodowy im. Ossolinskich. Acta agraria et silvestria. Series agraria. 1980. v. 19. p. 209-216. 15 ref. (NAL Call No.: 20.5 AC8).

0163
Nutritional value of earthworms and grasshoppers as poultry feed.
Sugimura, K. ; Hori, E.; Kurihara, Y.; Itoh, S. Chiba-shi : Japan Poultry Science Association. Japanese poultry science. Jan 1984. v. 21 (1). p. 1-7. Includes references. (NAL Call No.: 47.8 N57).

0164
The nutritional value of earthworms for chickens.
Taboga, L. Harlow, Essex, Eng., Longman. British poultry science. Sept 1980. v. 21 (5). p. 405-410. 3 ref. (NAL Call No.: 47.8 B77).

0165
Nutritional value of earthworms for poultry feed.
Yoshida, M. ; Hoshii, H. Chiba-shi, Japan Poultry Science Association. Japanese poultry science. Nov 1978. v. 15 (6). p. 308-311. ill. 8 ref. (NAL Call No.: 47.8 N57).

0166
Nutritive value of the earthworm, Dendrodrilus subrubicundus, grown on domestic sewage, in trout diets (Salmo gairdneri).
Stafford, E.A. ; Tacon, A.G.J. London : Applied Science Publishers. Agricultural wastes. 1984. v. 9 (4). p. 249-266. Includes references. (NAL Call No.: TD930.A32).

0167
Observation on the effect of earthworm in the decomposition process in soil under laboratory conditions (Octochaetona surensis).
Senapati, B.K. ; Dash, M.C.; Rana, A.K.; Panda, B.K. Jodhpur, K.G. Purohit.

Comparative physiology and ecology. July 1980. v. 5 (3). p. 140-142. 9 ref. (NAL Call No.: QP82.A1C6).

0168
Observations and experiments relating to earthworms particularly in the vicinity of Lincoln, Nebraska.
Macnab, James Arthur. Lincoln University of Nebraska 1931. Thesis (M.A.)--University of Nebraska. 233 leaves, (22) leaves of plates : ill. Bibliography: leaves 220-233. (NAL Call No.: QL391.O4M3).

0169
Occurrence of cytochrome P-450 in the earthworm Lumbricus terrestris.
Liimatainen, A.DEBID. ; Hanninen, O. New York : Elsevier Biomedical. Developments in biochemistry. 1982. Paper presented at the 4th International Conference on Cytochrome P-450 held in Kuopio, Finland, May 31-June 3, 1982. v. 43. p. 255-258. Includes references. (NAL Call No.: QH345.D4).

0170
The occurrence of earthworms in the wheat-belt of Western Australia in relation to land use and rainfall.
Abbott, I. ; Parker, C.A. East Melbourne, Commonwealth Scientific and Industrial Research Organization. Australian journal of soil research. Aug 1980. v. 18 (3). p. 343-352. ill., map. 11 ref. (NAL Call No.: 56.8 AU7).

0171
On the evolution of clonal diversity in parthenogenetic earthworms.
Jaenike, J. ; Ausubel, S.; Grimaldi, D.A. Jena, E. Ger., Gustav Fischer. Pedobiologia. 1982. v. 23 (3/4). p. 304-310. ill. Ref. (NAL Call No.: 56.8 P343).

0172
On the possible role of earthworms in the transmission of Ostertagia ostertagi third-stage larvae from (disease vectors) feces to soil.
Gronvold, J. Lawrence, Kan., American Society of Parasitologists. The Journal of parasitology. Oct 1979. v. 65 (5). p. 831-832. ill. (NAL Call No.: 448.8 J824).

0173
Organic matter turnover by earthworms.
Stout, J.D. London : Chapman and Hall. 1983. Earthworm ecology : from Darwin to vermiculture / edited by J.E. Satchell. p. 35-48. Includes 13 references. (NAL Call No.: DNAL QL391.A6E27).

0174
Origin of the effect of earthworms on the availability of phosphorus in a phosphate rock.
Mackay, A.D.SBIOA. ; Springett, J.A.; Syers, J.K.; Gregg, P.E.H. Oxford : Pergamon Press. Soil biology and biochemistry. 1983. v. 15 (1). p. 63-73. ill. 1 p. ref. (NAL Call No.: S592.7.A1S6).

0175
Oxygen uptake of active and aestivating earthworm Glossoscolex paulistus (Oligochaeta, Glossoscolecidae).
CBPAB5. Abe, A.S. ; Buck, N. Oxford : Pergamon Press. Comparative biochemistry and physiology. A: Comparative physiology. 1985. v. 81 (1). p. 63-66. ill. Includes references. (NAL Call No.: DNAL QP1.C6).

0176
Participation of Collembolas and earthworms in the transformation of algal organic matter.
Nekrasova, K.A.SSSCA. ; Aleksandrova, I.V. Silver Spring : Scripta Publishing Co. Soviet soil science. July/Aug 1982 c1983. Translated from: Pochvovedenie, (10) p. 65-71. v. 14 (4). p. 31-39. Includes references. (NAL Call No.: 57.8 P34AE).

0177
Pesticidal effects of sevin (1-naphthyl-n-methyl carbamate) on the survivability and abundance of earthworm Pontoscolex corethrurus.
Kale, R.D. ; Krishnamoorthy, R.V. Bangalore, The Academy. Proceedings - Indian Academy of Sciences. B: Plant sciences.Indian Academy of Sciences. Dec 1979. v. 88 (pt.1,6). p. 391-396. ill. 24 ref. (NAL Call No.: 513 IN25B).

0178
Phosphatase activity in earthworm faeces (Allolobophora caliginosa, Eisenia foetida, Dendrobaena veneta, Lumbricus rubellus).
Satchell, J.E. ; Martin, K. Oxford, Eng. : Pergamon Press. Soil biology and biochemistry. 1984. v. 16 (2). p. 191-194. Includes references. (NAL Call No.: S592.7.A1S6).

0179
Physical properties of earthworm casts and surface soil as influenced by management.
Lal, R.SOSCA. ; Akinremi, O.O. Baltimore : Williams & Wilkins. Soil science. Feb 1983. v. 135 (2). p. 114-122. ill. Includes references. (NAL Call No.: 56.8 S03).

0180
Physicochemical requirements in the environment of the earthworm Eisenia foetida.
Kaplan, D.L. ; Hartenstein, R.; Neuhauser, E.F.; Malecki, M.R. Oxford, Pergamon Press. Soil biology and biochemistry. 1980. v. 12 (4). p. 347-352. ill. 18 ref. (NAL Call No.: S592.7.A1S6).

0181
Plant availability of phosphorus in dead herbage ingested by surface-casting earthworms.
Mansell, G.P. ; Syers, J.K.; Gregg, P.E.H. Oxford, Pergamon Press. Soil biology & biochemistry. 1981. v. 13 (2). p. 163-167. 24 ref. (NAL Call No.: S592.7.A1S6).

0182
Plant availability of phosphorus in superphosphate and a phosphate rock as influenced by earthworms.
Mackay, A.D. ; Syers, J.K.; Springett, J.A.; Gregg, P.E.H. Oxford, Eng., Pergamon Press. Soil biology and biochemistry. 1982. v. 14 (3). p. 281-187. ill. Ref. (NAL Call No.: S592.7.A1S6).

0183
Population density and biomass of earthworms in agro-ecosystems of the Mariut coastal desert region in Egypt.
Ghabbour, S.I. ; Skakir, S.H. Jena, E. Ger., Gustav Fischer. Pedobiologia. 1982. v. 23 (3/4). p. 189-198. ill. 17 ref. (NAL Call No.: 56.8 P343).

0184
Population density and species number of enchytraeids in coniferous forest soils polluted by a brass mill (Earthworms).
Bengtsson, G.PDBLA. ; Rundgren, S. Jena, E. Ger. : Gustav Fischer. Pedobiologia. 1982. v. 24 (4). p. 211-218. map. 1 p. ref. (NAL Call No.: 56.8 P343).

0185
The population dynamics of the earthworm Eisenia nordenskioldi in meadow steppe habitats in the USSR.
Pokarzhevskij, A.D. ; Titisheva, N.G. Jena, E. Ger., Gustav Fischer. Pedobiologia. 1982. v. 23 (3/4). p. 266-267. 2 ref. (NAL Call No.: 56.8 P343).

0186
The possible role of the soil fauna in the epizootiology of cysticercosis in cattle. I. Earthworms--the biotic factor in a transmission of Taenia saginata eggs.
Lonc, E. Jena, E. Ger. : Gustav Fischer. Angewandte Parasitologie. Aug 1980. v. 21 (3). p. 133-139. (NAL Call No.: 436.8 AN4).

0187
A preliminary investigation of the nutritive value of three terrestrial lumbricid worms for rainbow trout (Eisenia foetida, Allolobophora, Lumbricus terrestis).
Tacon, A.G.J. ; Stafford, E.A.; Edwards, C.A. Amsterdam : Elsevier Scientific Publishing. Aquaculture. Nov 1983. v. 35 (3). p. 187-199. ill. Includes references. (NAL Call No.: SH1.A6).

0188
Preliminary observations on the harmful effects of Megascolex insignis on Carica papaya (Effects of earthworms on the decomposition process of organic materials).
Chandra Rao, B.R. ; Bhat, J.V. Hebbal, Bangalore, India, The University. U.A.S. tech series - India, University of Agricultural Sciences. 1981. 1981. (37). p. 53-59. Includes 21 ref. (NAL Call No.: S539.I4U53).

0189
Production and carrying capacity for the earthworm Lumbricus terrestris in culture (Gut load and gut transit time).
Hartenstein, R.SBIOA. ; Amico, L. Oxford : Pergamon Press. Soil biology and biochemistry. 1983. v. 15 (1). p. 51-54. 13 ref. (NAL Call No.: S592.7.A1S6).

0190
Production and diversity of enchytraeids, earthworms and plants in fertilized hay meadow plots.
Standen, V. Oxford : Blackwell Scientific. Journal of applied ecology. Apr 1984. v. 21 (1). p. 293-312. ill. Includes references. (NAL Call No.: 410 J828).

0191
Production of earthworm protein for animal feed from potato waste.
Edwards, C.A.PEANA. London : Butterworths. Proceedings - Easter School in Agricultural Science, University of Nottingham. 1983. 1983. (36). p. 153-162. ill. Includes references. (NAL Call No.: S217.E2).

0192
Protein analysis of earthworm coelomic fluid. III. Isolation and characterization of several bacteriostatic molecules from Eisenia fetida andrei.
DCIMD. Vaillier, J. ; Cadoret, M.A.; Roch, P.; Valembois, P. Elmsford, N.Y. : Pergamon Press. Developmental and comparative immunology. Winter 1985. v. 9 (1). p. 11-20. ill. Includes 20 references. (NAL Call No.: DNAL QR180.D4).

0193
Purification and structure of the polypeptide chains of earthworm hemoglobin.
Garlick, R.L. ; Riggs, A. New York, Academic Press. Archives of biochemistry and biophysics. May 1981. v. 208 (2). p. 563-575. ill. 44 ref. (NAL Call No.: 381 AR2).

0194
Raising earthworms.
1979. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member, Elementary, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices. Decision making. Careers, earning and saving. (2) p. : ill. (NAL Call No.: S533.F66D6).(NAL Call No.: SW 420).

0195
The response of earthworm populations (Oligochaeta, Lumbricidae) to high applications of pig slurry.
Cotton, D.C.F. ; Curry, J.P. Jena, Gustav Fischer. Pedobiologia. 1980. v. 20 (3). p. 189-196. ill. 24 ref. (NAL Call No.: 56.8 P343).

0196
Rhabditis terricola: an opportunistic nematode parasite of earthworm cocoons.
Taboga, L. New York, Academic Press. Journal of invertebrate pathology. July 1981. v. 38 (11). p. 22-25. ill. 7 ref. (NAL Call No.: 421 J826).

0197
The role of earthworms in the cycling of phosphorus in pasture ecosystems.
Syers, J.K. ; Springett, J.A.; Sharpley, A.N. Wellington, N.Z., P.D. Hasselberg, Govt. Printer. Proceedings ... Australasian Conference on Grassland Invertebrate Ecology. 1978 (pub. 1980). 1978 (pub. 1980). (2nd). p. 47-49. Includes 15 ref. (NAL Call No.: QH541.5.P7A82).

0198
The role of invertebrates in nutrient cycling and energy flow in grasslands (Decomposition process, termites, earthworms).
Lee, K.E. Wellington, N.Z., P.D. Hasselberg, Govt. Printer. Proceedings ... Australasian Conference on Grassland Invertebrate Ecology. 1978 (pub. 1980). 1978 (pub. 1980). (2nd). p. 26-29. Includes 19 ref. (NAL Call No.: QH541.5.P7A82).

0199
Role of the earthworm, Eisenia foetida, in affecting organic matter decomposition in microcosms of sludge-amended soil (New York).
Mitchell, M.J.JAPEA. ; Parkinson, C.M.; Hamilton, W.E.; Dindal, D.L. Oxford : Blackwell Scientific. Journal of applied ecology. Dec 1982. v. 19 (3). p. 805-812. 21 ref. (NAL Call No.: 410 J828).

0200
Seasonal dynamics and emergence pattern of a tropical earthworm, Drawida calebi (Oligochaeta).
Senapati, B.K. ; Dash, H.K.; Dash, M.C. Amsterdam, Elsevier/North-Holland. International journal of invertebrate reproduction. Oct 1979. v. 1 (5). p. 271-277. ill. 11 ref. (NAL Call No.: QP251.I628).

0201
A simulation model of earthworm growth and population dynamics: application to organic waste conversion.
Mitchell, M.J. London : Chapman and Hall, 1983. Earthworm ecology : from Darwin to vermiculture / edited by J.E. Satchell. p. 339-349. Includes 22 references. (NAL Call No.: DNAL QL391.A6E27).

0202
The soil fauna of tropical savannas. II. The earthworms.
Lavelle, P. Amsterdam : Elsevier Scientific Pub. Co. Ecosystems of the world. 1983. v. 13. p. 485-504. ill. Includes references. (NAL Call No.: QH540.E27).

0203
Soil physical parameters and earthworm populations associated with opencast coal working and land restoration (England).
Armstrong, M.J. ; Bragg, N.C. Amsterdam : Elsevier. Agriculture ecosystems & environment. May 1984. v.11 (2). p. 131-143. ill. Includes 1 p. references. (NAL Call No.: S601.A34).

0204
Soil transport as a homeostatic mechanism for stabilizing the earthworm environment.
Kretzschmar, A. London : Chapman and Hall, 1983. Earthworm ecology : from Darwin to vermiculture / edited by J.E. Satchell. p. 59-66. Includes 13 references. (NAL Call No.: DNAL QL391.A6E27).

0205
Some chemical properties of casts of the earthworm, Drawida willsi Michallsen (Moniligastridae).
Vikram Reddy, M. Calcutta : Indian Association of Biological Sciences. Indian biologist. Dec 1983. v. 15 (1/2). p. 4-6. Includes references. (NAL Call No.: QH301.I44).

0206
Some environmental factors affecting earthworm populations and sweetpotato production in the Tari Basin, Papua New Guinea Highlands (Pontoscolex corethrurus, Ipomoea batatas).
Rose, C.J.PNGJA. ; Wood, A.W. Port Moresby : Papua New Guinea, Dept. of Agriculture, Stock and Fisheries. The Papua New Guinea agricultural journal. Dec 1980. v. 31 (1/4). p. 1-13. ill., maps. Includes references. (NAL Call No.: 23 N453).

0207
Some observations on earthworm populations in grassland soils.
Vernon, J.D.R. ; Findlay, D.C.; Lyons, C.H. Jena, Gustav Fischer. Pedobiologia. 1981. v. 21 (6). p. 446-449. 13 ref. (NAL Call No.: 56.8 P343).

0208
Some observations on occurrence of earthworms in forest habitats (Poland, role in organic, fertile soil formation).
Nakamura, M. Warszawa, Polish Scientific Publishers. Ekologia polska. = Polish journal of ecology. 1981. v. 29 (1). p. 97-115. Includes 30 ref. (NAL Call No.: 512 W263).

0209
Some other friends of the earth (Earthworm farm).
Parkin, J. Woods Hole, Mass., New Alchemy Institute. The Journal of the new alchemists. 1979. v. 5. p. 69-72. ill. 16 ref. (NAL Call No.: GF1.J6).

0210
Stimulation of microbial phosphatase production by earthworm activity.
Satchell, J.E. ; Martin, K.; Krishnamoorthy, R.V. Oxford, Eng. : Pergamon Press. Soil biology and biochemistry. 1984. v. 16 (2). p. 195. Includes references. (NAL Call No.: S592.7.A1S6).

0211
Studies on the relationship between enchytraeids and earthworms.
Gorny, M. Budapest : Akademiai Kiado, 1984. Soil biology and conservation of the biosphere / edited by J. Szegi. p. 769-776. ill. Includes 14 references. (NAL Call No.: DNAL S592.5.S63 1984).

0212
Sublethal toxic effects of copper on growth, reproduction and litter breakdown activity in the earthworm Lumbricus rubellus, with observations on the influence of temperature and soil pH.
Ma, W.C. London : Applied Science. Environmental pollution. Series A: Ecological and biological. 1984. v. 33 (3). p. 207-219. Includes references. (NAL Call No.: QH545.A1E52).

0213
Superoxide dismutase, thermal respiratory acclimation, and growth in an earthworm, Eisenia foetida.
Moment, G.B. ; Tolmasoff, J.M.; Cutler, R.G. Lakeland, Fla., Growth Publishing. Growth. Sept 1980. v. 44 (3). p. 230-234. ill. 15 ref. (NAL Call No.: 442.8 G91).

0214
Suppression of earthworm (Lumbricus terrestris) populations around an airport by soil applications of the fungicide, benomyl.
Tomlin, A.D. ; Tolman, J.H.; Thorn, G.D. Amsterdam, Elsevier Scientific Publishing Company. Protection ecology. Feb 1981. v. 2 (4). p. 319-323. 8 ref. (NAL Call No.: S589.7.P7).

0215
Survival of earthworms exposed to Neoaplectana carpocapsae nematodes.
Capinera, J.L.JIVPA. ; Blue, S.L.; Wheeler, G.S. New York : Academic Press. Journal of invertebrate pathology. May 1982. v. 39 (3). p. 419-421. (NAL Call No.: 421 J826).

0216
Techniques for sampling earthworms and cocoons from leaf litter, humus and soil.
PDBLA. Walther, P.B. ; Snider, R.M. Jena, E. Ger. : Gustav Fischer. Pedobiologia. 1984. v. 27. p. 293-297. Includes references. (NAL Call No.: DNAL 56.8 P343).

0217
The toxicity of selected organic chemicals to the earthworm Eisenia fetida.
JEVQAA. Neuhauser, E.F. ; Loehr, R.C.; Malecki, M.R.; Milligan, D.L.; Durkin, P.R. Madison, Wis. : American Society of Agronomy. Journal of environmental quality. July/Sept 1985. v. 14 (3). p. 383-388. Includes references. (NAL Call No.: DNAL QH540.J6).

0218
Toxicity of the pyrethroid insecticides cypermethrin and WL85871 to the earthworm, Eisenia foetida savigny.
BECTA. Inglesfield, C. New York, N.Y. : Springer-Verlag. Bulletin of environmental contamination and toxicology. Nov 1984. v. 33 (5). p. 568-570. Includes references. (NAL Call No.: DNAL RA1270.P35A1).

0219
Toxoplasma gondii--natural infection sought in earthworms (Pheretima posthuma).
Chhabra, M.B. Hissar, India, Directorate of Publicatications, Haryana Agricultural University. Journal of research. Mar 1978. v. 8 (1). p. 75-76. 8 ref. (NAL Call No.: S19.J68).

0220
Transport of Rhizobium and Pseudomonas through soil (Earthworms).
Madsen, E.L. ; Alexander, M. Madison : The Society. Journal - Soil Science Society of America. May/June 1982. v. 46 (3). p. 557-560. 23 ref. (NAL Call No.: 56.9 S03).

0221
Unpaid handyman--the earthworm.
Howard, A. Colombo : The Institute. Journal of the National Institute of Plantation Management. 1983. v. 3 (1). p. 68-70. (NAL Call No.: S560.J6).

0222
Uptake of pesticides from water and soil by earthworms.
Lord, K.A. ; Briggs, G.G.; Neale, M.C.; Manlove, R. Oxford, Blackwell. Pesticide science. Aug 1980. v. 11 (4). p. 401-408. ill. 11 ref. (NAL Call No.: SB951.P47).

0223
The use of earthworms for composting farm wastes.
Edwards, C.A. ; Burrows, I.; Fletcher, K.E.; Jones, B.A. London : Elsevier Applied Science Publishers, c1985. Composting of agricultural and other wastes / edited by J.K.R. Gasser. p. 229-242. Includes 23 references. (NAL Call No.: DNAL S661.C65).

0224
Use of earthworms in sludge management.
SWJUA. Brennan, J. ; Hartenstein, R. Washington, D.C. : The Federation. Journal - Water Pollution Control Federation. Oct 1984. v. 56 (10). p. 1136-1139. Includes 26 references. (NAL Call No.: DNAL 293.8 SE8).

0225
Use of grassland plots to study the effect of pesticides on earthworms.
Edwards, P.J.PDBLA. ; Brown, S.M. Jena, E. Ger. : Gustav Fischer. Pedobiologia. 1982. v. 24 (3). p. 145-150. ill. 11

ref. (NAL Call No.: 56.8 P343).

0226
Utilization of Eudrilus eugeniae for disposal of cassava peel.
Mba, C.C. London : Chapman and Hall, 1983. Earthworm ecology : from Darwin to vermiculture / edited by J.E. Satchell. p. 315-321. Includes 9 references. (NAL Call No.: DNAL QL391.A6E27).

0227
Vermicomposting for sludge management (Earthworm degradation).
Emmaus, Pa. : JG Press, 1982. Composting : theory and practice for city, industry and farm / edited by the staff of Compost Science/Land Utilization. p. 166-167. (NAL Call No.: S661.C6 1982).

0228
Vermicomposting for sludge management (Earthworms, waste recycling).
Emmaus, Pa., J.G. Press. Compost science/land utilization. May/June 1980. v. 21 (3). p. 42-43. ill. (NAL Call No.: 57.8 C734).

0229
Vermicomposting municipal sludge (by earthworms): an economical stabilization alternative.
Pincince, A.B. ; Donovan, J.F.; Bates, J.E. Silver Spring, Md., Business Publishers. Sludge. Sept/Oct 1980. v. 3 (5). p. 26-30. ill. 10 ref. (NAL Call No.: TD767.S59).

0230
Water and air conductance in soil with earthworms: an electrical-analogue study.
Kirkham, M.B. Jena, E. Ger., Gustav Fischer. Pedobiologia. 1982. v. 23 (5). p. 367-371. ill. 4 ref. (NAL Call No.: 56.8 P343).

0231
Workshop on the Role of Earthworms in the Stabilization of Organic Residues, Kalamazoo, Michigan, April 9-12, 1980 /co-sponsored by Western Michigan University, Institute of Public Affairs and Division of Continuing Education and Kalamazoo Nature Center. -.
; Appelhof, Mary.; Worden, Diane D. Kalamazoo, Mich. : Beech Leaf Press, 1981. Spine title: Role of earthworms, proceedings (v.1).~ Spine title: Role of earthworms, bibliography (v.2).~ Includes indexes. 2 v. : ill., maps ; 28 cm. (NAL Call No.: DNAL QL391.A6W6 1980).

0232
The worm turns : an investigation of experimentation on the learning abilities of earthworms.
Howell, David N. (Tallahassee, Fla. Tall Timbers Research Station) 1974. 6 p. -. Bibliography: p. 5-6. (NAL Call No.: QL391.A6M4 v.1, No.10).

0233
Wormcast production and nitrogen contribution to soil by a tropical earthworm population from a grassland site in Orissa, India.
Dash, M.C. ; Patra, U.C. Paris, Gauthier-Villars. Revue d'ecologie et de biologie du sol. Jan 1979. v. 16 (1). p. 79-83. ill. 11 ref. (NAL Call No.: S590.R4).

Abbott, I. 145, 170
Abe, A.S. 175
Abrams, B.I. 30
AGJOAT. 98
AGNIA. 60
Akinremi, O.O. 179
Aleksandrova, I.V. 176
Alexander, M. 220
Amico, L. 189
AMNAA. 24
Andersen, C. 136
Andersen, N.C. 160
Antoshchenkov, V.F. 75
Appelhof, Mary. 231
Arme, C. 143
Armstrong, M.J. 203
Atlavinyte, O. 93, 108
Ausubel, S. 171
Axelsson, B. 118
Baker, G.H. 35
Baker, S.W. 88
Barlow, F. 103
Barnes, B.T. 105
Bates, J.E. 31, 229
BECTA. 218
Behera, N. 126, 130
Bengtsson, G. 184
Bennett, A. 37
Bercovier, H. 15
Bezborodov, G.A. 139
Bhat, J.V. 188
Blackshaw, R.P. 60
Blue, S.L. 215
Bolger, T. 129
Bouche, M.B. 155
Bradley, R.J. 123
Bragg, N.C. 203
Brault, J. 15
Brennan, J. 224
Bridges, B.L. 98
Briggs, G.G. 36, 222
Broadbent, A.B. 22
Brown, S.M. 225
Brzezinska, E. 162
BTLTA. 29
Buck, N. 175
Burrows, I. 223
Cadoret, M.A. 192
Cairns, A. 107
Capinera, J.L. 215
Carmody, F. 42
Carter, A. 66, 132
CBPAB5. 175
Chandra Rao, B.R. 188
Charles, J.C. 150
Chhabra, M.B. 219
Choudhuri, D.K. 124
CJSSA. 117
Cook, A. 103
Cook, F.J. 140
Cotton, D.C.F. 43, 61, 104, 195
Crespi, P. 64
Cuendet, G. 20
Curry, J.P. 43, 61, 104, 129, 195
Cutler, R.G. 213
Czarnowska, K. 131
Daciulyte, J. 108
Daniel, W. H. 157
Dash, H.K. 200
Dash, M.C. 119, 120, 126, 130, 167, 200, 233
Daynard, T.B. 117
DCIMD. 192
De St. Remy, E.A. 117
DEBID. 169
Dei, C. 130
Diercxsens, P. 155
Dindal, D.L. 199
Donovan, J.F. 31, 229
Dottie, D.J. 122
Dunning, A. 151
Durkin, P.R. 217
Easton, E. G. 148
Easton, E.G. 11
Edwards, C.A. 45, 80, 86, 106, 135, 161, 187, 191, 223
Edwards, P.J. 225
Eijsackers, H.J.P. 32, 91
Ellis, F.B. 105
EVETB. 22
Fieldson, R.S. 83
Findlay, D.C. 207
Flack, F.M. 127
Fletcher, K.E. 223
Franz, M.F. 84
Furuichi, E. 25
Galvelis, A. 108
Garlick, R.L. 193
GEBSA. 124
GEDMA. 39
Gerard, B.M. 90
Ghabbour, S.I. 183
Gordon, F.C. 98
Gorny, M. 211
Grant, J.D. 6
Gregg, P.E.H. 174, 181, 182
Grimaldi, D.A. 171
Gronvold, J. 172
Grove, Alfred John. 34
Guthrie, T.F. 132
Hamilton, W.E. 199
Hanninen, O. 169
Harman, W.J. 8
Hart, P.B.S. 140
Hartenstein, R. 85, 111, 127, 153, 180, 189, 224
Hatanaka, K. 25
Hay, R.K.M. 90
Haynes, R.J. 116
Heinonen, J. 66
Helmke, P.A. 115
Hemalatha, V. 95
Herrera, R. 54
HOECD. 35
Holter, P. 87, 92
Hooff, P. van. 39
Hoogerkamp, M. 91
Hori, E. 163
Hornor, S.G. 30, 101
Hoshii, H. 165
Howard, A. 221
Howell, David N. 232
Huhta, V. 113
IJEAC. 155
Inglesfield, C. 218
Ishioka, Y. 25
Ismail, A. 38
Iso, N. 28
Itoh, S. 163
Jaenike, J. 121, 171
James, S.W. 109
JAPEA. 86, 199
JEVQAA. 217
JIVPA. 215
JMNAA. 79
JNAHA. 125
Johnson, James W. 142
Jones, B.A. 223
Jopkiewicz, K. 131
Julka, J.M. 10
Kale, R.D. 26, 177
Kalemurrahman, M. 38
Kalinowska, A. 97
Kaplan, D.L. 153, 180
Kastendiek, J. 23
Kenney, E.A. 132

Keogh, R.G. 149
Khalbayeva, R.A. 139
Kirk, V.M. 41
Kirkham, M.B. 230
Klein, T. 73
Knollenberg, W.G. 24
Kollmannsperger, F. 133
Koths, J.S. 73
Kretzschmar, A. 204
Krishnamoorthy, R.V. 26, 177, 210
Krivolutskii, D.A. 68
Krivolutsky, D. [illegible]
Kroger, M.
Kuhle, J.C. 7
Kurihara, Y. 163
Laird, J.M. 59
Lal, R. 179
Lautour, M.L. de. 65
Lavelle, P. 146, 202
Lawson, D.L. 24
Lee, K.E. 78, 138, 198
Liimatainen, A. 169
Loehr, R.C. 96, 217
Lofs-Holmin, A. 53, 134, 154
Lofty, J.R. 86, 106, 135, 161
Lohm, U. 118
Lonc, E. 186
Lord, K.A. 36, 222
Lugauskas, A. 108
Lyons, C.H. 207
Ma, W.C. 212
Mackay, A.D. 174, 182
Macnab, James Arthur. 168
Madan, M. 74
Madsen, E.L. 220
Makulec, G. 97
Malecki, M.R. 33, 96, 153, 180, 217
Manlove, R. 222
Mansell, G.P. 181
Marshall, W.H. 79
Martin, K. 178, 210
Martin, Kyla. 13
Martin, N.A. 52, 76, 144, 150
Martinucci, G. 152
Martinucci, G.B. 64
Mazantseva, G.P. 128
Mba, C.C. 29, 226
McColl, H.P. 65, 140, 147, 158
McManus, F.E. 17
McMillan, J.H. 16
Mendelson, T. 17
Merritt, R. W. 24
Meyer, J.A. 33
Mikhal'tsova, Z.A. 68
Mikhaltsova, Z. 70
Milligan, D.L. 217
Mishra, P.C. 120, 126
Mitchell, M.J. 30, 101, 102, 199, 201
Mitra, K. 124
Mizuno, H. 28
Moment, G.B. 213
Moreau, Jean-Pierre. 114
Morgenweck, R.D. 79
Nakamura, M. 208
Nakamura, Y. 18
Narahara, A. 111
Nasekina, L.F. 75
Neale, M.C. 222
Nekrasova, K.A. 176
Nemeth, A. 54
Neuhauser, E.F. 33, 96, 111, 153, 180, 217
Nozawa, T. 28
NSUGA. 28
Oien, N. 5
Omodeo, P. 64
Osella, G. 64
Panda, B.K. 167
Parker, C.A. 145, 170
Parkin, J. 209
Parkinson, C.M. 199
Patra, U.C. 233
PDBLA. 96, 144, 184, 216, 225
PEANA. 191
Persson, T. 118
Pearce, T.G. 55, 125
Pincince, A.B. 31, 229
PLAAA. 8
PNGJA. 206
Pobozsny, M. 71
Pokarzhevskij, A.D. 185
Potter, D.A. 98
PSSCB. 36
Rafats, J. 81
Rana, A.K. 167
REBSA. 130
Reddy, M.V. 110
Reinecke, A.J. 82, 137
Reynolds, John Warren. 77
Richards, K.S. 143
Riggs, A. 193
Robarge, W.P. 115
Robotti, C.A. 14
Roch, P. 192
Rodale, R. 67
Rogaar, H. 91
Rose, C.J. 141, 206
Ross, D.J. 107
Rozen, A. 9
Rudel, S. 58
Rundgren, S. 184
Russell-Smith, A. 103
Ryl, B. 21
Sabine, J.R. 69
Saito, T. 28
Sala, G. 152
Sareen, M.L. 156
Satchell, J. E. 13, 44
Satchell, J.E. 47, 51, 56, 57, 122, 178, 210
Satpathy, B. 130
SBIOA. 33, 85, 107, 127, 174, 189
Schaefer, R. 146
Selander, R.K. 121
Semyashkina, T.M. 68
Senapati, B.K. 119, 167, 200
Seymore, G. 62
Sharma, N. 74
Sharpley, A.N. 100, 197
Sharply, A.N. 27
Skakir, S.H. 183
Snider, R.M. 216
SOSCA. 179
Springett, J.A. 48, 50, 63, 89, 94, 99, 174, 182, 197
SSSCA. 176
Stafford, E.A. 166, 187
Standen, V. 151, 190
Stead, G.B. 151
Stenersen, J. 2, 3, 4, 5
Stockdill, S.M.J. 112
Stout, J.D. 173
Sugimura, K. 163
SWJUA. 224
Syers, J.K. 27, 48, 63, 89, 99, 100, 174, 181, 182, 197
Syers, K. 40
Taboga, L. 164, 196
Tacon, A.G.J. 166, 187
Tarradellas, J. 155
Thomas, J.M. 33
Thorn, G.D. 214
Timmenga, H. 132
Titisheva, N.G. 185
Tolman, J.H. 214
Tolmasoff, J.M. 213

Postage and Fees Paid
United States
Department of Agriculture
AGR-101

U.S. Department of Agriculture
National Agricultural Library
Beltsville, Maryland 20705

OFFICIAL BUSINESS
Penalty for Private Use, $300